Appendix B Field Logs



## **HORIZONTAL LINE**

All-Weather Notebook **No. 391** 

YERINGTON	132039
BACKGROUND	SOILS
7/25/07 -	-

4 5/8" x 7" - 48 Numbered Pages

Wed. July 25, 2007 Sunny / clear Partly cloudy

PBassett + Tim Hendrickson (BC)

PBassett + Tim Hendrickson (Bc)
0800 - Arrive at Weed Heights Mine
office

5afety meeting to review project scope, planned field activities work schedule, project HASP + specific safety issues (JSA) Participants included:

- Penny Bassett (BC)
-Tim Hendrickson "

- Mike Weeks (Herbst)

- Roy Thun (ARC)

- John Batchelder

- Jake (Copper Env.)

- Doyle

- Don Haldon (Foxfire)

Docision was made to use a 4WD backhor for satury. This will cause cholay in start until Friday while rental backhor acquired.

71300 - Remainder of day to organize field supplies, sample containers.

and Nicole? (EPA contractor)
regarding EPAs current radiation
Survey activities in Process Area.
They want to take gamma readings
in background soil locations in order
to establish rad background. Also
want to drill one small borehole
(direct push) + place rad probe down
into subsurface soils. Want to
coordinate with background soils locations.

P Baset

- Sunny, clear-partly doudy ~95°F

0830 PBassett + THendrickson mark out ntility locates for USA for all bkgr soils areas.

1230 Travel to Carson City for supplies

1300 Communicated with John Powell of Test America St. Louis Laboratory about submitting soils 4 to them for U, + Th by 6020. They are able to do the analysis per project requirements. Still need to review QAD to ensure They can comply. We will Collect 3 sample containers at each sample locations to submit to the following labs:

Test America (Invine) - Metals STL (Richland) - Ra-226, 228 TestAmerica (St Lovis) - U. Th

1800 - Retvin to Yerington, > P Backt Fr: July 27, 2007

- Sunny, clear - partly cloudy ~95°F

0630 Meet at Weed Heights office for Safety meeting + unload back hoe Field Crew: PBassett, THEndrickson, M. Weeks, D. Nond, D. Herlocker

0720 Drive to first work location

0805 BGS - A1-07 Adjust position ~ 100 W of planned to stay off private property - Photo I - general arec + backhoe - Photo 2 - Sample lac. photo 09:00 Samples: BGS-A1-07S

- Silty sand w/minor gravel - organichorizon 0-7", more compact from 7-10" less organic. 365-A1-07D - Silty sand, hard compact is minor

gravel, roots still visible & 3'depth

10:00 BGS-A1-08

Move to + setup on new location. Adjusted position ~ 100 west to be off private property.

Photo 3 - Sample / Soil horizon photo in pit B65-A1-085 2"-10" 10:30

· Organic horizon 0-8"

· Silty sand with manageneral a

Med-dk brown, very little meisture

BGS-A1-08D 2-3' 10:30

· Sand, fine-med, poorly graded minor s. It, (less than shallow) Minor gravel to 1/2"

11:10 Walk to + schop at next location

Discovered small 402 glass jar for

BGS-A1-088 broken. Discarded

Jar + soil + filled new jar with

soil from 1602 sample jar from

same location

Dig p.t at location of stake

Dhoto 4 - P.t wall

BGS-A1-11S 2"-10" 11 30.

Organic horizon to v8", no horizo

- Organic horizon to v8", no horizon not well defined

· Sand (fine-med) w/ s. It + gravel to 1"
· Dry, some routs

BGS-A1-11D 2'-3' 11:30 Collect duplicate 11D-1 normal 110-2 dup

Collect all sample in one bag, mix + split to normal + dup containers . Sand (med), poorly grached. Med gravel from '18" to 1", rounded to subangular

Moderately compacted but breaks w/impact

Joins

12 00 BGS-AL-12 Set up + dig pit Photo 5 - In Pit Wall

BGS-A1-12S 2-10" 12:15
- A herizon ~ 0-4"

- Fine-Mad Sand w/ 1.th silt, minor gravel. Dry, roots

\* Possed some of the dup sample into Shallow jar for Radium. Dumpad + recollected

BGS-A1-12D 2-3' 12'15

Fine-med sand poorly sorted

No silt, Gravel horizon at

2-2.5 interval w/ coarse gravel

to 2", angular

13:00 Lunch break

14'15 BGS-A1-09

Very sandy location war foot hills of moting

B65-A1-095 2-10" 14:3

- EPA split Sample Collectedby D Herlecker-Collected 2x volume + 3plit to loars + his - Fine - mid poorly graded Sand w/minor gravel to 1/2"

BGS-A1-09D 2'-3' 14:30

- EPA split

- Fine-med send poorly graded, mod gravel to 1/2", ~ 10-15% gravel, <5% s. It 80% sand

- Roots visible to 3'

15:05 BGS-A1-10] Photo 7 - P. twall

BGS-A1-105 2-10" 15:15

-A horizon 0-511

- Eine - med sand, Poorly graded, uncompacted little - no gravel

B65-A1-10D 1.31 1515

- Gravel lense 20 - 26" med-coarse

- Sand w/mod gravel 26 - 36"

- Gravel lens 36+

- Sampled collected primarily from 26-36 "Sand

16:00 BGS-A1-27]
Adjacent to min fence near Tibbels
Waste incinerator
Photo 8

-BGS-A1-278 1-10" 16:15

- A herzon ~ 0-3" not well defined

- Well gracked Sandy gravel w/silt.

Very vocky + hard packed, reddish brown

Gravel from 12" to 3" in 5:1+ sand

metrix

- Gravellayer from 0-2'

BGS - A1 - 27D 2-3' 16:15

- Sand w/gravel. Med mod - poorly graded sand, gravel 1/4-1"

17:00 Drop collected samples in Lab storage area. All samples stored in refridgerator

18:30 off site,

P Basa #

- Sunny, clear. Possible afternoon clouds, no vain forcast. Hot ~ 95-98° F

briefing + unload backhoe
Field crew: PBassett, THendrickson,
M Weeks, Jake Kockler, D. Herlocher

BGS-A1-32]
Photo 9 - Pit wall Photolo-Camera
BGS-A1-325 2-10" 08:00
-A soil horizon poorly defined,

- 2-10" sample interval very sandy
fine-med sand, no s. It, minor gravel
<10%, 5:22 2 1/2". Very loose
unconsolidated

BGS-A1-320 2-3' 08:00

- V. poorly graded tourse sand w/

- poorly comented caliche layers, discontinuous at 2-3'

08:45 BGS-A1-31 Photo 11 - P. F Wall Photo 12 - Caliche Zone Location ~ 1001 downhill from cat scrape exploration pit BGS-A1-31S \$2-10" 09:00 -"A" horizon ~ 0.8" very poorly defined w/shallow rocts - Well graded Silt-Sand-gravel 5. It (15%) sand (40%) gravel (40%) - Rodent hale near sample kinkerval BGS - A1 - 31D 2-3' 0900

- Duplicate collected deepinterval

- (oarse gravel (80%) w/ silt + sand matrix.

- Whate caliche in so I matrix - coating on gravel - Rock in gravel is rhyolite volcanic

w/gtz, feldsp xtals

09:30 Move to next location

BGS-A1-31D-1 normal -31D-2 duplicate 09:40 BGS-A1-30 Photo 13 - Pit Wall Location in small drainage ~ 50-801 uphill from catscrape exploration pit BGS-A1-30S 2-10" - "A" horizon very minimal 0-3" - Gravel 1/2-3" (80%) in sity sand matrix. Rock is unalt rhyolike BGS-A1-30D 2-3' - Med-coarse gravel (80.70) insilty sand matrix, minor caliche visible

10:30 BGS-A1-25 Photo 14 - Pit wall BGS - A1 - 25S 2-10" - "A"horizon indistinct 0-3", area of - Silty sand w/ some gravel

much less than 3 occation 31.

Silt (25%) fine mod sand (50%) BGS-A1-25D 2-3' 10:45

- Med-coarse gravel in silty sandmatry gravel (85%) matrix (5%) · gravel 1/2-3". Caliche coating on gravel + in matrix

11:30 BGS-A1-24 Photo 15 - Pit wall Location ~ 50-80 ft down hill from cat scrape prospect pit BGS - A1 - 245 2-10" 11:45 - Stiff sand, compacted, cemented, hard - Sand (1570) w/ fine sand/sit + minor gravel to ~ 12" · Sandy loam BGS-A1-24D 2-3' 11:45 - looser sand, w/ some fines + some gravel 50 (6070) 5. It (107) grav 15%

12.15 Lunch break 13:00 Move to next location 1365-A1-191 Photo 16 - Pitwall Location 20' Nof catscrape property BGS A1-19S 2-10" 13:30 - Well graded sand from + coarse sand w/ some gravel BGS-A1-19D 2-3' 13-36 - Well graded sand + graved to Z" in fine silty matrix . - Caliche layer at 34"

14.00 BGS-A1-20 Photo 17 - pit wall Location between handred + M. Me. So. 1 Very rocky, up to 12"+ boulders \*EPA split sample (D. Herlocker) Soil smells musty, more organic material. 1565 - A1 - 20s - Well graded gravel, full geof partile Size from fine to gravel - Mid organic rich , routs EPA split BGS-A1-20D 2-3' 14:15 - Well graded gravel, same as shellow but more gravel. Caliche exprass to at ~ 36" retridgentors & restock supplies

15:00 Drop samples in lab storage

16:00 Offs. Le

SUN JULY 29, 2007 - Sunny, clear, Lot ~95-980E 06:45 Mut at Weed His office for Sately meeting + daily planning Mobilize to first location Field Team: PBasset, THENDICKSON 07:30 BGS-A1-01 Reported a 180 SW to stay - Several local property owners approached us this am to inquire what we're doing. Mostly concerned about potential future mining activities & how . T could affect their property + prace - Pete (?) Anderson Thoto 18-pithall - Terry Quashnick 468-1473 Photo 19-glove - Rodney Dantsky (mason fass Rel) Photo 19-glove north of Quashnick BGS-A1-01S ,2-10" 08:15 Duplicate sample in shallow interval oss 013-1 normal 015-2 duplicate - Organic horizon, v. poorly defined - Well gracked Sand wil gravel (<10%) S-A1-OID 2-31 08:15 BGS-A1-01D - Well graded sand w/ gravel (15.20%) 0.5-1" rhyolite rock

9:45 [BGS-A1-03]

\* EPA Split sample location

Photo 20 - Pit wall

BGS-A1-03S Z-10" 10:15

-Well graded sand w/ minor gravel

- Havel, Well cemented

- Teddish brown color

BGS-A1-03D Zi-3' 10:15

- Med-coarse gravel in sand matrix

- At compacted

- Gravel (04070) Sand (6670)

- Gravel rock is crystal rich rhyolite

w/biohte, felds, gtz

10:50 Move to next location

10:50 BGS-A1-C4

Photo 21 - Pit Wall

Location ~ 700-10001 down slope from

Firing Range / Bow Range, down slope

from Haul Rol. Topography pretly gentle

BGS-A1-04S 2-10" 11:15

- Hard compacted mod-well graded

sity sand wigravel.

BGS-A1-04D 2-3' 11:15

- Mod-well graded fine-med sand will

gravel + boulders ~ 207. gravel/rock

Softer, less compacted,

Boulders up to 201", rhyolike

Volcanics.

11:30 Lunch break

12:30 |BGS-A1-16| Photo 22-Pit Wall

Generally very sandy soil w/gravel lenses

BGS-A1-16S 2-10" 13:00

-Loose unconsolidated sand, Moderate

gravel sand w/fine-crs sand w/miner

gravel (5-10%)

BGS-A1-16D 2-3' 13:00

-Loose mod gradel sand w/gravel tenses

gravel 0.5-2" (~10-15%)

Generally coarse gravel soil w/s. Hysand
matrix. ~80% gravel 0.5-4".

BGS-A1-175 2-10" 13:30

-fine roots to 8"

- Gravel (50%) in silty sand
matrix

BGS-A1-17D 2-3' 13:30

- Coarse gravel lense 28-38"

w/ cobbles up to 4"+

- Med-crs gravel above that

- Caliche in matrix starting
at ~20"-36"

14:00 [BGS-A1-18] Photo 24-Pit well
Brown we organic horizon to ~8" w/
small rootlets
Med-Crs gravel in well graded matrix
not clearly defined gravel horizon but
just a big jumble
Some caliche in matrix starting at 16"
BGS-A1-18S 2-10" 14:15
Nell graded gravel in Silty sand matrix
BGS-A1-18D 2-3! 14:15
Cis gravel to 4", rhyolite silty sand matrix

4:40 [BGS-A1-23] Photo 25+26/446

\* 2 phietos at this spot, same
Generally Nery gravely in sandmetria
med grand to 2"

BGS-A1-235 2-10" 14'45

- Cryanic zone C-8" w/restlets

Go 70 gravel 40 % sandmetria

BGS-A1-23D Z-3' 14 45

- Med Size gravel to 2", sub-ound

60-70% gravel, silt/sandmadrix,

V. Well graded

Drop samples at

15° 36

Mon July 30, 2007

- Sunny clear hot, 1. He - 110 breeze

- Field crew: Phassett, Boffan Bass T Hendrickson, M Wecks, D Herlocker

ob: 30 Meet at week Hts office for sadidy meeting + daily

07:30 BGS-A1-22 Photo 27-clipbond
Generally gravelin sandy matrix
entre 30'. Some horizontal budded
gravel lenges starting at 25'
BGS-A1-228 2-10" 08:15

- Minor rocks do ~8"

- Unserted gravel in 5 lty sand matrix, well sorted, gravel to 2" (40%)

BGS-A1-22D 2-3' 08115

- Med gravel to 2" in sorted lenses Subsumeded (60%), brown Generally, sitty to medium SAND, with trace angular gravel, med. brown, dry, deuse.

B65-A1-215

Silty to fine SAND, well-graded (sw), with trace gravel to 1/2" (kepc), very deuse, reddish brown, dry. Rant roots C" to 8".

BGS-A1-21D

fire to niedition SAND, well-graded (sw), with trace grave to 2" (2002), med.

dense , brown , dry

C9:45

BES-A1-15 Photo #30-pit wall benerally, silty to medium SAND, with trace angular gravel, brown, dry. Angular gravel layer from 16" to 36" to 36" togs.

Plant 100 to 5 from 0" to 36" togs.

BC-S-A1-155

Silty to fire SAND, well-graded and
scorly graded silty SAND (SP), trace
propular granel to 12" (10%), very dense, dry,
reddish brown

B65-A1-15D Sindand Cravel Mixture (50/50), adl-graded (5n/6n), with augular gravel to 2", dense, light brown, dry.

11:00 BGS-A1-13 | Photo #30 Vell-graded Sand from 0" to 30" kgs, and gravel/sand mixture from 30" to 40" kgs, with ringular gravel to 3". Plant rects to 30" kgs. BGS-A1-135

Silting to medium SAND, well-graded, with trace angular gravel (5%) to 1/2", dense, light brown, dry. BGS-A1-13D

Silty to medium SAND, vell-graded, with angular gravel (30%) to 3" dia, med. diense, med. brown, bry.

13:15 | BGS-AI-26 | Photo #32 | BGS-AI-265 |
Footing-graded Silty SAND PP) with trace a volcanic gravel to 2" (10%), medicleuse, medicleuse, medicleuse, and brown, dry.

PGS-AI-26D

Well-graded Silty to Coarse SAND (SW),

with trace volcanic gravel (10%),
dense, reddish brown, dry.

- Generally, sitty to five SAND
with trace igneous rock. Plant
rocts to 10" bgs.

Generally - sand o gravel mixture with angular gravel from 1/2" to 1/2"

Lette to mid. devise. Less gravel in top fort.

BES-AI-285

Silty to medium SAND, well-graded (SW), with trace course sand, organic content, no gravel, reddish-brown, very deuse, dry.

BES-AI-28D

Large angular gravel and thin laxers of caliched EP) with fine to aredinar sand (40%), loose, dry.

14:15 [BGS-A1-29] Photo #3\$ Generally - sand with gravel to I dia, igneous rock . Plant rocks to 12" Egs. BES-A1-295 Silty to the SAND, well-graded (sw), with trace gravel to 1/2," (igneous), dense, reddish brown, dry o BGS-A1-29D Angular gravel and thin layers of caliche (CP) with fine to median Find (40%), med deuse, dry. 15:00 BES-A1-33 Photo #35 benerally - sand and gravel mixture with gravel to 2"die", calicle-type Mck. Mant roots to 20" bys., BGS-A1-335 Silty to fore SAND, well graded (SW) with little coarse sand (15%) and trace gravel (5%) to 1"dia, 10050, reddish - brown, dry.

Angular gravel and caliche (61) with fine to coarse sand (30%), dense, dry,

BGS-A1-33D

Med trown

15:30 Bis. A1-34 Mb # 36

(severally, sand + grand mixture with calicle layers, grand to 2" (igneous).

Sisty to five SAND, well-graded, with trace angular gravel, very dense, reddish-trown, dry BG5-A1:34D
Gravel and Caliche, augular, to 3", with some Silts to median send (GP), med-dense, med-brown, dry

31 JULY 2667 - THE

Still Depart hotel. Meet at site-collect

Egypment from lat. Meet at the ed Hts.

office. Conduct His tailgate meeting.

CS: 20 [BGS-A2-40] Moto# 38-BGS-A1-40

GENERALLY, Saire Moto# 38-BGS-A1-40

and gravel Moto# 38-BGS-A1-40

Mixture, with

'ess density (compartien) possibly due

to being back fill. - LIKELY

B65-A2-465 Situ to medium, well-graded SAND with angular gravel to 3"dia (50%) (Sw/Gw), loose, light brown, dry-NOTE: Possible backfill - LIKELY BGS-A2-40D Fine to ccarse, well-graded SAND (SW) with angular grave 1 1/2" to 3" (3: %), loose, Med. brown, moist-slightly. \* NOTE: Possible backfill - LIKELY Must re-100a to this - 685 off mark according 19:45 BGS-A2-39 Photo #2940 Generally sand + gravel mixture - gravitic gravel angular. Silty said in top feet, fore to medium Sand below Plant roots BGS-AZ-395 Poorly-graded sitty SAND (SC) with angulai granitic gravel (25%) to 2'dia, Ictse, reddish-treun, dry. B65-A2-39D AB Angular grante CRAVEL and igneous rich gravel and fine to medium well-sorted SAND (GP/SW) (50/50%), gravel to 4"da, 1000, med troun, dry.

11:20 Sample location for BGS-A2-40 was incorrect - ESS unit positioned it for eff the desired map location by approx 1/4 mile. he-mapped the Rication with new 685 mark that over-wrote the old one 10:45 BBS-AR-4C-Relicated Photo#44 Cenerally - Sand and gravel mixture, angular grave l'to 3" chia, Plant roots to 36". BB5-A2-405 Pecrty-graded siftly SAND with augula granel to 2"dia (SP), locse, reddish-troun, dry BES-A2-40D Will-graded silty to medium SAND. with angula: gravel to 2" Lie (30%) X NOTE: RE-marked this a Wis-cuturit old mark. 11:45 BES-A2-38 Photo \*42 Cenerally - Faired from C"to 12" Eggs and said/gravel from 12" to 46 bgs. BG-5-AR-385 " Peorly-graded Silty SAAD with trace

augulai graves to 1/2", loc se, dark brown, 200 (SP) B65-A2 38D Well-graded sifty to medium SAND notte augulai gravel to 3'dea (SW), loose, med. Evoun, dry. 12:45 Doyle from 13:30 BGS-A2-36 Photo #43 Ceverally - sand and large augular gravel mixture with plant rocts B65-A2-365 Angular gravel from 12" to 6" with parly-graded sand-silty (GP/SP) (50/50%), loose, med drown - dark trown, dry BGS-A2-36P Well-graded silty to coarse SAND, trom 14" to 2" (SW), 10054, rect from dry. 14.15 (B65-A1-35) Photo#49 benerally - sand and gravel mixture with 4 organic topsoil in pockets

Plant roofs to 5" kys.

BGS-A1-355

Poorly-graded silty sand and
sandy silt (SP) with trace gravel
angular (5%), 100 se, dark brown,
dry.

1565-A1-35D

Well-graded silty to coarse SAND
with angular pebbles and gravel
from 14" to 4" diz., kgs, med
brown & dark brown, dry.

1 AUE 2007 - Wed 66:15 Depart hotel for site. 66:30 Meet at Need Hts. Office. Brian B., Tim H., Dong/Tetra Tech, Doyle/Copper thu., Mike/Bedhoe. Conduct H!S meeting & Comp & le HIS paperwork. Mike has new fuel filter installed (offsite) His morning. C8:10 Arrive at first sample location

08:30 [365-A2-64] Photo #45 Generally - Sand : gravel mixture from 0" to 2 bgs with augular
ground; hard caliche luyer from
2' to 3' bgs, large augular grand/
from 3' to 3.5' bgs. Plantroots to 12"

BGS-A2-645

Silty to fine SAND with augular
gravel 1" to 3" dia. (20%). (SP),

Jeuse, med. brown, dry.

BGS-A2-64D

Augular GRAVEL 1" to 5" dia with

well-graded fine to coarse SAND

(50/50%) (GP/SN), loose, med brown,
dry.

(Paug Herlocker-EPA Sauples)

(9:30 BGS-A2-63) Photo # 46

Generally - Sand with some gravel from 0 to 2', sand with some gravel from 2' to 3', and soft sand from 3' to 3.5'. Plant roots to 20" by s.

BGS-A2-635

Perly-graded Silty SAND with trace gravel-(5%) anywar to 3/4" (5P), med dense, med krown, dry.

BGS-A2-63D

Poorly graded Silty SAND with trace

angular gravel (10%) 1/2" to 4" dia, (5P), 10056, welkerown, dry

10:30 [BGS-A2-G2] Photo #40

(severally— sand) & grawel mixture
from 10" to 3' bgs, with increasing
gravel at depth. Plant roots to 2:56;

BGS-A2-G25

Coorly—graded silty SAND with trace
cingular gravel to 1/2" (5%) (SP);

med dense, med brown, dry

BGS-A2-62D

Well-graded time to coarse SAND (3%)

with pebbles and angular gravel (76%)

from 1/2" to 1". (GW), loose, brown,

dry

(Poug Herlocker-EPA samples)

11:15 B65-A2-G1 B65-A2-G15
Poorly-graded silty JAND with
trace aughlar gravel (10%) from
'z" to 1" (SP), loose, light frown,

benerally - Sand & gravel mixture with moreasing lingular gravel at depth. Plant roots to 30" tgs.

Well-graded GRAVEL from 1/2" to 1.5" with petiles and some five sand (10%) losse, gray/white/black-gray rock, dry.

Dec 1365-A2-52 Photo# 48

(Paugherlacker-EPA samples)

(conerally - ivill-graded sand top to

tottom, with trace small gravel.

Plant roots to 10".

1365-A2-525

Well-graded siltly to coarse SAND (SW)

with trace angular pettles, loose,

med brinn, diff

1365-A2-53D

Same as 525.

13:45 B6s-A2-42) Photo\* 49 50

(severally - Sand with little gravel
from 0"+2' bgs, and gravel with
xme sand from 2' + c 3.5'. Plant
roots to 2.5' bgs.
B6s-A2-425'
Well-graded silty to coarse SAND with
trace angular gravel (5%) to 12" dia. (Sw),

1005e, med brown, dry.

1865-A2-42D

Well-graded Silty to coarse sand (30%)

and well-graded GRAVEZ from

Vz. to 2", angular, with pebbles.

(6N), loose, med brown, dry

NOTE: Pockects i layers of red

brown (iron) sand a gravel.

14:45 [BGS-A2-41] Photo #54

Generally - sand and gravel mixture

with micreasing granel at depth plant

cencl GRAVEL layer at 3' bgo roots to

BGS-A2-415

Silty SAND, poorly-graded with

trace angular gravel (520) to 12"

dia., losse, fight troun, dry.

BGS-A2-41D

Angular GRAVEL; with peteless and

viell-graded fine to medium sand (40%)

(GW), losse, med brown, dry.

15:30 B65-A2-43 Photo #5P Generally-5ilty Sound and silt from.

o" to 8" bys, sand o gracel reixture from 8" to 1.5' bys, and mostly gravel with some sand from 1.5' to 3.5 bys. Plant robts to 3 bys. BCS-A2-435
Silty SAND, porly-graded with trace gravel (5%) angular to 1/2" dia (5°)", med cleuse, dark brown (organic material?), dry.

B65-A2-43D
Angular GRAVEL, well-graded from 1/2" to 2" with pebbles and some wetlass fixe to medium sand (20%) (6"), med cleuse, med brown, dry.

16:00 Completed B65-A2-43-last
Sauple location for the day,
16:15 Back at Alled Its office.
Unload truck. Transport samples
to Airmeteo lake and into reforg.
17:00 Depart mine ste.
17:15 Arrive at hotel. Complete papernork
and COC's Check. Linearl truck

—> 18:00

2 AUG 2007 - Thu

.06:15 Depart hotel

obis: Meet at lives Hts ofkice-Hts, inecting with Mike Weeks, Dayle Copper Dri, Brian/BC, TimH./BC. Load truck with equipment and supplies.

08:00 Beginforst simple location.

B6-5-A1-37 Photo#53-ligbook

\* NOTE: This sample location was in a skeep slope and was re-located in the field. he moned it ~150' south and re-615 d it as B65-37, over-writing previous mark.

- Photo # 5 \$ - pit wall bevorally - Secret + growel mixture with silt near top 0"- 10" bgs and increasing said at depth. Color darker from 2'-3' bgs with organiz matter. Nant roots to 2.5 bgs.

B65-A1-375

Well-graded silty to coarse SAND and well-graded porow, volcanic gravel from 12" to 1" with pebbles (SW/6W), locse, dark brown, dry.

B65-A)-37)
Well-graded fine to coarse SAND
and pedeles with some angular
gravel (25%) (SW), deuse,
'various color sand & peteles, grave,
and white rock, dry.
NOTE: All soil and rock here is reddish/
reddish-brown because of iron.

Severally - 311ty sand and sith from C' for L' tigs and sand and grand mixture from 2' to 3' ligs. Plant roots 2'.

B65-A2-445

Silty, poorly-graded SAND with trace angular gravel (572) to 1/2" dia (SP), med dense, med brown, dry.

B65-A2-44D

Well-graded silty to coarse SAND with petites and some angular gravel (20%) from 1/2" to 2" dia, louse, multi-colored, dry.

\* NOTE: at 11:10, Mikeday back (large) wheels.
Into soft ground, and was forced to kack

down a small hill and go down a gulch to get out No danger of for potential soft areas on inclines. Stayon flat terrainand avoid michals on hills. 1865-A2-45 Comerally - sand throughout profile with small parkets of caliche and some granel Plant roots to 3 6 gs. B65- A2-455 Poorly-graded Silty SAND with trace angular granel (10%), med. dense, reddish-brown, dry. BCS-A2-45D Yourly-graded silty SAND with augular granel (40%) and some coarse sand (10%), (5P/61), Icese, reddish-krown, dry.

12:30 [BES-A2-46] The to #50 Generally-relatively homogeneous silty five SAND top to bottom, with no gravel and decreasing trensity with depth, Caliche layer starting at 3'bgs-50/id and very dense, Plants
Bbs-A2-465
Silty SAND-Poorly-graded (SP),
deuse, med. brown, dry.
PES-A2-46D
Silty SAND-poorly-graded (SP),
lose, med. brown, dry.
Note: The at sence of any perbles or
grave/ suggest this is all wind-blown
dust (Sure).

13:15 Generally - notatively homogeneous
sity SAND for to bottom, with no
gravel of petiles. Med. deuse throughod.
Plant roots to 3' bys
BES-A2-475
Sity fre SAND poorly-graded (SP),
med. deuse, med. brown, dry.
BES-A2-47D
Same as above at 475.
13:45 Aprice back at Nieed's Ht. office.
Mike Load kackber on trailer. Unload
agriphent from truck is to office. Throw

duray trash.

14:10 Pepart Weed Hts office for lab. Sort samples into correct coolers for specific labs. Store equipment in lab. 14:50 Depart mine site

14:10 Report Weed Hts office for lab. Soit samples into correct coolers for specific labs. Store equipment in lab. 14:50 Depart mine site Tues Aug 14, 2007

06:30 Meet at Weed Heights office for safety meeting & daily planning. Field Team: Penny Bassett Tim Hendrickson Doyle Noud Mike Weeks

07:30 BGS-A2-59 Photo 1 - name tag

Photo 2 - pitwall

Location ~ 30' from drainage channel with several prospect pits + small mine dumps N400-600' upstream. Soil very dry + gravelly w/ some large rocks up to 24". Bedrock outcrop on apposite side of channel ~50' to the south, BGS-A2-595 (08:00)

Poorly graded gravel in silly sand matrix. Gravel is angular 1/4-3" intrusive granodiovite rock, Some roots BGS-AZ-59D (08:00)

Same. Poorly graded gravel in Silly Sand. Coarse gravel to 3"

Brian Bass

08-10 1865-A2-58 Photo4 - p. + wall

Dense compacted soil to 24", Caliche at 24-30", loose sandy soil 24-36" Blocation near top of alluvial fan hill (not in drainage)

BGS-A2-585 (08.30)

Dense compacted sandy soil, med graded. Some moisture holding soil together. Reddish brown

BGS-A2-58D (08:30)

Loose sandy soil, same composition as shallow sample but not comented. Caliche layer visible at 24-30", while caliche replacement of roots. Little to no gravel.

Sandy soil w/ small gravel to 14"

Soft & loose near surface, well

cemented, strong caliche zone at

24-36"

BGS-A2-575 09:15

Well graded sand and gravel ( < 1/4") uncemented, loose, med brown BGS-AZ-57D

Well comented caliche zone in well graded sand a gravel (<1") Gravel is intrusive qtz rich granik/ granodiorik

Loose sandy gravel, no distinct caliche
layer, not very cemented/compacted

BGS-AZ-60S - Loose sandy gravel (21")

Well graded, med brown, numerous
roots. Soil very dex.

BGS-A2-60D - Same as above.

Larger gravel up to 3-4" some calcium coating on rocks but no distinct caliche zone visible at 3' depth.

10:45 BGS-AZ-56 Photo 8 - Pitwell Sandy gravel with large pieces of decomposing granite 0-12" is well graded sand w/ little-no gravel, well cemented, mod hard, 712" is gravel in sand matrix, gravel generally 14 - 1/2 w/ some large pieces to 3-4" Weak caliche zone @ 24-36" BGS-A2-56S - Well graded sand, cemented/compacted, modifiand. · Little - no gravel. Brwn - veddish brwn. B65-A2-560 - Gravel ('lu-3") in sitty sand celiche matrix. Louse.

11:45 BGS-AZ-49 Photo 9 - pitwall Loose sandy gravel, well graded, narrow calichezone (6") at 24-30" BGS-AZ-495 - Loose sandy gravel w/ gravel 1/4- 1/2", well graded, med brun. BGS-A2-49D - Loose Sandy gravel with some caliche at 24-30", coarser gravel up to 3".

Large pieces of decemposing granite

12:30 [BGS-A2-50] Photo 10 granik boulders (18") which are weathered and decomposing, (the backhoe ent it in half). Some caliche at ~ 18-36" not in distinct horizontal horizon but appears to ensed around granite boulders. BGS-A2-505 - Loose sandy gravel well graded w/ gravel 1/4-1/2" of granik. Med brwn. BGS- AZ-50D - Loose sandy gravel w/ gravel up to 3" of crystals of atz + felds from decomposed granite Did not sample granite boulder that shows in photo, collected from area that

# 13 00 Lunch Break

14:00 BGS-A2-48 Photo 11- Label Photo 12- P. + Wall So Well graded Sandy gravel (~ 1/4-1/2")
degraded granite, Very dry a dusty
decomposed

had more organic soil,

BGS-A2-485 - Well graded Sandy gravel, decomposed gramte, mo BES-A2-48D - Same generally small gravel (1/4-1/2) but some larger pieces to 2-3". No significant caliche.

15:00 [BGS-A2-51] Photo 13 Coarse gravel, loose, Gravel 1-4" not much sand or other times. Caliche Zone at 10-16" & some caliche in matrix to 36". Gravel is primarily granodiorite + granite. BGS-A2-518 2-10"

Coarse gravel in some sand, gravel to 4", med bown w/ some calcite coating on rocks. Loose.

BGS-AZ-51D

Duplicate = 510-2

Normal = 510-1 Coarse gravel w/ some sand in matix gravel ~ 80%, Calcite coating on rocks

B65-A2-51E

Equipment blank collected by pouring lab Supplied e-pure water over rock pick used to chip sample from pit wall. Pick was wiped wil towel as typical between samples Sharp point of pick has very little contact with soil.

16:30 Dop samples at Lab in refridgerators + restock supplies

17:00 Offsite

"Outdoor writing products for outdoor writing people."



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## **HORIZONTAL LINE**

All-Weather Notebook No. 391

YERINGTON 132039

BACKGROUND SOILS

8/15/07 - 8/17/07

4 5/8" x 7" - 48 Numbered Pages

for Safety meeting + project planning.
Field Team: Penny Bassett
Tim Hendrickson
Mike Weeks
Doyle Noud.

north end of mine site. Drive thru mine site + enter fenced area NE of Site (W of Evap fonds).

Location is far down on alluvial fan, less gravel, more silte sand. Soil is generally pretty loose, uncemented. Distinct caliche zone at 24-30" Small gravel lenses at 12-18" and 36-?"

BGS-A1-145 - Well graded Silty sand w/little-no gravel. Weakly cemented mod. firm. Reddish/yellowish brwn BGS-A1-14D - Well graded Silty Sand with minor gravel in small lenses. 6" of caliche at 24-30" Mod. firm but not too hard, reddish brun.

1830 [BGS-A1-05] Photo 16+17

Location for down on allowed fan,
next to identified archeology s. k.

Repositioned sample location ~ 150'

east to remain ontside marked arch.

boundary. Soil is very sandy, monor
gravel, loose. 0-6" loosedry, surface

soil Worganics. 6-18" wk-mod cemental

mod firm sithy sand. 18-36" toose

mod-poorly graded sand w/ minor gravel

BGS-A1-05S - Mod graded sithy sand

mod. firm/cemented, no caliche

Rodish brwn soil.

BGS-A1-05D - Mod-poorly graded

BGS-A1-OSD - Mod-poorly graded Sand w/ fine - coarse sand, minor gravel (2107.) up to 1/2". Very loose, reddish brwn. No Callche. Coarse gravel soil in silty sand matrix
Calcite coating on gravel but not a distinct
caliche layer in matrix.

BGS-A1-02S - "A" horizon, silty sand with some gravel to 8", coarse gravel starts at 8"

BGS-A1-02D - Coarse gravel 1-5" subrounded (80% gravel) in silty sand matrix, calcik coating on gravel surface

10:45 BGS-A1-OG Photo 20+21

Mod-poorly graded fine-med Sand

Well cemented from 4-24" with

caliche filling in root casts. Some

gravel lenses at 20-30" in localized

areas of excavation, but not continuous

horizon.

BGS-A1-06S - Caliche zone at 4-24" mod-well comented firm. Sand w/ minor gravel.

BGS-A1-06D - Mod-poorly graded sand w/ minor gravel, not much caliche at this depth, mod firm reddish brum travel pieces are crystalline volcanic (rhyolik?).

11:30 Lunch Break

Very rocky, with alot of caliche at 2-3' depth in areas of excavation. Location is close to rocky hill + bedrock is probably not very deep here. Rock/gravel is dark volcanic material. Et BGS-A2-53S - V. well graded silt-Sand-gravel. Loose, some caliche, med brwn.

3GS-A2-53D - Coarse gravel, rocky starting at ~20" w abundant caliche filling matrix around rocks. >80% \* rocks + decomposed sandyrock.

13:15 BGS-A2-54 Photo 25, 26

Rocky, coarse gravel with intrusive + volcanic rocks. Loose, Well graded sandy gravel, med brun. Some caliche at 36-38".

BGS-A2-545 - Well graded sandy gravel w/gravel to 2".

commence of complete.

gravel to 4" in sandy matrix. Minor caliche near bottom of interval. Gravel consits of intrusive + volcanic rocks.

13:45 BGS-A2-55 Photo 27 VERY Rocky - not really any true Soil to sample buth there is some tine material + caliche along fractures and root zones. The arra is basically decomposing weathered bedrock of metamorphic origin. Grey fine grained rock of probable volcanic / intrusive origin but grain structure is altered. BGS-AZ 555 - Heathered bedrock with some caliche and organics in root Zone. ~957. rock. Sample tried to minimize collection of large rocks + collected caliche areas BGS-A2-55D - Less Weathering, & fractured rock with some caliche zones. Sample collected from Caliche areas.

14:45 BGS-A2-65) Photo 28 Location ~ 75-100 ft down hill from water tanks. Area is disturbed and surface vegetation has been cleared but excavation revealed native soil with "A" horizon + organic roots showing to ~ 10-12" + coarse gravel underwath. Collocted sample, even though surface was disturbed. BGS-A2-655 - Sandy gravel mod-well graded, organics, reddishbrown soil color gravel to 3" of Intrusive granite I granodiorite BGS-A2-65D - Coarse gravel (80-962 up to 4-6", slightly rounded, granite. Silty sand matrix. Some calcite

15:30 Drop samples in fridge at lab. Done for the day.

caliche Zone.

coating on rocks but no distinct

P Bareett

Thurs. Ang 16,2007

Weather Sunny + clear

06:30 Meet at Weed Heights office
for Safety meeting
Field Team - P. Bhssett

T. Hendrickson

M. Weeks

D. Noud

Mobilize to first location

Location - relocate ~ 100' north to avoid area disturbed by gravel pit. Coarse gravel up to 4-6" Subrounded. No distinct caliche horizon but there is some calcite coating on gravel.

BGS-A2-668- A' horizon ~0-10"

of silty sand & gravel w/minor roots + organics. Wk-mod cemented

Med-darker brwn.

Med-darker brwn.

BGS-A2-66D

66D-1 Normal

66D-2 Duplicate

Coarse gravel in silty sand matrix W/

Caliche in matrix + coating on ricks.

Gravel 4-6" 80%

Coarse gravel 70-807. up to 4"

Caliche in matrix from 16-36"

BGS-A2-67S - Well graded Silt
Sand-gravel. A horizon to ~8"

BGS-A2-67D - Coarse gravel

1/2-4" pieces of granik/granodiorike

in caliche sandy matrix

BGS-A2-67F - Field blank

Poured that lab reagent grade

water into 500 ml HNO3 preserved

bottles. Done in excavation pt

after sample was collected.

V. loose + soft V. Well graded silty

Sand + gravel w/ granite/granediorite

ricks w/caliche coating.

0-10" A horizon w/ less grand, still

well graded, smaller gravel to 1/2".

BGS-A2-685 - S. Ity sand w/ small

gravel (~30?) to 1/2". (~60%)

BGS-A2-68D - Med-Crs gravel to 3-4"

Sub angular, granediorite in silty sand

matrix. Very Soft + loose, Celiche coating
but not much in matrix.

69:30 [BGS-A2-69] Photo 32 Loose mod graded sand with minor gravel to 14-1/2". Gravel lens w/ small gravel <1" at 33". Different looking Than other nearby samples because no coarse gravel. Location in bottom of shallow, wide drainage. BGS-A2-695 - mod graded silly sand wifine-crs sand, little-no gravel, V. loose, uncemented. No Caliche. BGS-A2-69D - Mod graded sand with some gravel (20-30%) to 1/2". Minor caliche in matrix + on rocks but no

distinct caliche horizon.

10:15 BGS-AZ-71 Photo 33 Loose sandy gravel. Relocate Pit ~ 150' West to remain on BLM land, west side of fence line. BGS-A2-715 - Silly sand, "A"horizon ~0-10", 1. the no gravel. Mod graded Sand fine crs. BGS-A2-71D - V. Well graded silty sand W/ gravel (~ 30 %). Loose, uncemented. Minor caliche on gravel, small celiche horizon visible starting at 36"

10:45 [BGS-AZ-70] Photo 34

@ Excavate pat at location marked by stake but The pit was solid bedrack, not enough soil for asample. Backfilled & relicated to nearby area off of hill and it was also very rocky + unsampleable. Backfilled + relocated to area further up hill ~ 150' for West of original stake

11:15 collect sample from this location 0-8" A' horizon-silty sand w/minor grave 1/4-1/2"

8-26" - Mod comented silty sand with gravel & some decomposing boulders boulders

26" - narrow 1/2" band of v. dark Fe stained band in soil + rock, not sure of origin

26"-36" Strong caliche zone w/. abundant calcium in matrix & on rock Gravel + decomposing bedrock, not transported far from sourse "A Horizon from 0-14" - Silly sandy
gravel W/ horizontal zoning +
numerous roots + organics
714" Coarse gravel + decomposing
granite + rock, &
30-36" - Strong caliche zone
BGS-AZ-7ZS - Silly sand w/ gravel
rich organic, dk brwn-ved brwn,
weakly cemented
BGS-AZ-7ZD - Coarse gravel 80%
up to 5", decomposing granite
Some stry caliche in bottom at 30"

13:30 BGS-AZ-73 Photo 36

0 44" A' horizon - organic rich

silty sand med - dk brum

>14" Coarse gravel with some
caliche coating but not significant
in matrix

BGS-AZ-73S - A horizon, silty

sand, med graded weakly

cemented, some white caliche

BGS-AZ-73D - Coarse gravel (~75-807.) up to 4", granite/diorite.

14:00 BGS-AZ-74] Photo 37
0-8" 'A' horizon
78" Coarse gravel w large bonders
to 12"4 including decomposing
granite + granectionite
BGS-AZ-745 - A horizon.

Mod graded sand w/some gravel to 2" Mod cemented, reddish brwn

BGS-AZ-74D - Coarse gravel + cobbles w/ sandy matrix, caliche in matrix.

14 8/16/07

15:00 Drop samples at lab, clean
up + store supplies
Collect equipment blank sample
PB+5:30 Off site by pouring lab gracle
water over rock pick.
BGS-A2-74E - Equipment Blank

15:30 Off Site

FRIDAY Aug 17, 2007

08:30 Meet W/ Mike Weeks,
outline him on 3 areas where
dirt prep work is required
to provide access for Sonic
core drill rig, including:
B/W-25
B/W-16

B/W-24

Mike will remove brush to clear a working area, + smooth uneven surfaces. Should be only 2-3 hours of back hoe work.

Mike will return rental 4WD backhoe this afternoon.

10:00 PBassett + THENDRICKSON

Pack up all Soil samples in coolers

from Lab refridgerators for transport

to Carson City + shipment to labs.

11:30 Off site